SPSS 2015-16 REPORT

Created on: 30- Jan-2017

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Approved by:

Chairman: Dr. Manjunath Bhandary

Principal: Dr.U.M.Bhushi

TABLE OF CONTENTS

1. PREAMBLE

Motivated by the desire to build a strong base for practical problem solving and hands on skills amongst the students, the Chairman of Sahyadri College of Engineering & Management, Dr. Manjunath Bhandary initiated the Sahyadri Project Support Scheme (SPSS). Through this scheme, the department of Projects and Funding provides financial and academic support for engineering student projects.

The SPSS scheme is the novel paradigm and first of its kind amongst technological universities in India created by Sahyadri College of Engineering & Management. While most of the engineering projects in the engineering colleges and universities are generally conducted as academic final year projects or club projects, SPSS is quite different wherein students execute non-academic engineering projects for the sake of engineering and not obtaining academic scores.

"SPSS Project scheme is an initiative to create interaction amongst the students and improve their analytical thinking abilities to apply engineering concepts in real world. Here at Sahyadri, We not only want the students to acquire only theoretical knowledge but also practical hands-on skills where they are fully involved in engineering."

Dr .Manjunath Bhandary

Chairman, Bhandary Foundation

"SPSS Project is an initiative to get hands-on experience for students in application of engineering concepts"

Dr.U.M. Bhushi

Principal, Sahyadri College of Engineering & Management

"Project based learning is the latest trend in outcome based education and SPSS is one of the novel approaches to combine cognitive analytical skills with psychomotor skills in engineering."

Dr.Rathishchandra.R.Gatti

SPSS-Head, Sahyadri College of Engineering & Management

2. SUMMARY

SPSS commenced in **July 2015** and ended in Tech Vision Program **April 30, 2016**.

HIGHLIGHTS OF SPSS 2015-16

Total **370 SPSS Projects were sanctioned** with the sanctioned amount of **Rs. 17, 55,000/-**.

The **actual** projects completed were **233 Projects**, with total project expenses of **Rs,6,59,272/-**

HIGHLIGHTS OF TECH VISION 2016

The SPSS team conducted **Tech Vision 2016** where the expenses were around **Rs. 2,32,500/-**

The SPSS exhibition of projects took place at the Tech Vision program, which was held at Sahyadri College Campus in April 30, 2016.

HIGHLIGHTS OF SRISHTI ABVP 2016

Srishti 2016, A state level project exhibition was held during 6th, 7th and 8th of May, 2016 at CMRIT, Bangalore. The SPSS Team coordinated the registration as well as provided travel support to the aspiring students. The travel and registration fees amounted to **Rs. 1, 49,000/-** which was sponsored by the SCEM Management. Totally, **63 students** participated in this event and **won 8 prizes** at State level competing with around 200 colleges of Karnataka.

TOTAL EXPENDITURE FOR THE SPSS ACTIVITIES FOR 2015-16

SPSS Activities	Expenditure
SPSS Projects	6,59,272
Tech Vision 2016	2,32,500
Srishti ABVP 2016	1,49,000
Total	10,30,772

SPSS 2015-16 REPORT

3. SPSS PROCESS FOR 2015-16

3.1 THE PROCESS FLOW

	Project Phase	Particulars	Documents Needed
1	SPSS project proposal	SPSS student group fill the SPSS project proposal. The project proposal is formulated according to the project themes. (see project theme sheet attached)	SPSS project proposal
2	SPSS review 1	The SPSS review committee will review all the applications against review 1 criteria and approve/disapprove the project.	Review1 criteria form
3	First installment release	1st installment is released to accepted SPSS projects to start. An email is sent to the selected project group students.	Letter of project acceptance and 1st Installment.
	Students will work on the project scope, project schedule, project idea, and literature review and project budget. They are free to buy things from the first installment which they are confident of getting reimbursed from 2nd and 3rd installment. Accounting of the purchases made is mandatory. For more details consult the SPSS team. Refer: SPSS Initial project presentation template and SPSS Initial report template in Section 6- SPSS Forms.		
4	SPSS project initial report	SPSS student group will present their project (PPT) + SPSS project initial report to their view committee.	SPSS project initial report presentation template, SPSS initial report template
5	SPSS review 2	The SPSS review committee will review all the applications against review 2 criteria form and approve/disapprove the project.	Review 2 criteria form
6	Second installment release	2nd installment is released to these SPSS students to start the project. An email is sent to the selected project group students.	Letter of 2nd installment

7	SPSS Project final report	Students will now work towards the completion of their project. They will publish at least one conference paper before project report 3. Publication draft to be uploaded with SPSS project report 2. They will also present their project to the review committee. They can use the SPSS project completion template for presentation	SPSS project final report presentation template, SPSS final report template
8	SPSS Project review 3	The SPSS review committee will review all the applications against review 3 criteria form and approve/disapprove the project	SPSS project final report presentation template,
9	Third installment release	3rd installment is released to these SPSS students after the project is completed and presented in techvision 2016 (part of eximus fest 2016). An email is sent to these elected project group students. In the email they are also requested to collect the participation certificates.	Letter of 3rd Installment Certificate of Participation
10	Sahyadri Innovations channel video recording	Project guide and project team members of SPSS projects will present their project	
11	Techvision participation	SPSS student groups will demonstrate their project ,project poster in TechVision 2016	Certificate of Participation

3.2 SPSS RULES AND GUIDELINES

3.2.1 SPSS STUDENT ELIGIBILITY RULES

1. SPSS project is mandatory for all students. Students should have

    (I) Good academic record of 65% and above, (ii) No active backlog to undertake an SPSS projects.

2. Students can work on SPSS project only before 08.45 am and after 05.00 pm and Saturday after 01.00 pm.

3. Students should agree that they will not be absent for their classes or go late to the classes in the pretext of SPSS activities. Attendance in the pretext of SPSS will not be signed by any faculty.

4. Students should return the projects and the supporting materials purchased to the SPSS office after displaying their projects in TechVision.

3.2.2 SPSS FUNDING RULES

1. The project team should NOT change the topic of the project after the project has been sponsored by SPSS and should not deviate from the objectives of the sanctioned proposal. In the event of any such changes, sponsoring will be treated as cancelled and the team should return the sanctioned amount to the college.

2. Project funding (amount and release date) is given strictly according to the funding installment schedule.

3. The SPSS project fund is the seed money for the students to get started with the project. In addition to the seed money, students are free to invest their own money to the project or can approach sponsors, companies, investors only after filling the sponsorship approval form approved by the principal.

4. Students should undertake only those projects with the project costs not exceeding the total of seed money and their own investment.

5. Students should not approach the management or faculty for additional funding.

6. Students should withdraw cash from the cheque issued at the earliest but not later than 2 months before the cheque loses its validity.

7. The SPSS fund is meant only for the purchase of project items and does not include costs such as publishing fees for papers, training fees etc.

8. Proper accounting of vouchers, bills, cash receipts have to be strictly followed.

3.2.3 SPSS INTELLECTUAL PROPERTY RULES

1. Any intellectual property (patent, designed patent, invention and publication) developed by SPSS will be shared by all the students.

2. Project guide/faculty cannot be the owner of intellectual property rights (IPR) generated in SPSS.

3. Students have to sign the intellectual property legal agreement.

4. All the students should be a part of publication no single author publication is entertained.

5. Any intellectual property developed by student group in SPSS, the inventers will be only students no external faculty, non-faculty are entertained.

6. Any intellectual property developed by student group in SPSS applicant/assigning will be intimated to intellectual property right (IPR) committee of SCEM.

7. If intellectual property right (IPR) committee accepts the students proposals for patents, students have to refer the "IPR-rule and guidance" attached.

3.2.4 SPSS FACULTY RULES

1. SPSS funding are availed for only student initiated projects and being guided by the faculty.

2. Faculty have the provision to own any intellectual property (patents, designed patent, invention and publications) emanating from the SPSS projects they have guided provided they contribute their own income amounting to at least 20% of the project money.

3. Every faculty must undertake guidance for at least one SPSS project.

4. There will be weekly meeting organized for SPPS coordinators, scheduled on Monday from 5:00 to 6:00 pm.

4. SPSS TEAM

4.1 CORE SPSS TEAM

1	SPSS Head	Prof. Rathshchandra R Gatti
2	SPSS Projects Coordinator	Ms. Ashutha K
3	DT Labz Representative 1	Mr. Gautham Nayak
4	DT Labz Representative 2	Mr. Sachin Ganesh
5	Mech. Dept. Coordinator 1	Mr. Suhas
6	Mech. Dept. Coordinator 2	Mr. Vaishak
7	CV - Department Coordinator	Dr. Gautham P Jeppu
8	CV - Department Coordinator 2	Ms. Bhavya
9	EC - Department Coordinator 1	Mr. Sharathchandra. N. R.
10	EC - Department Coordinator 2	Mr. Sachin C N Shetty
11	CSE - Department Coordinator	Mr.Madesh
12	CSE - Department Coordinator 2	Mr.Sunil.B.M
13	IS - Department Coordinator 1	Mr. Prakyath Rai
14	IS - Department Coordinator 2	Mr. Rithesh Pakkala
15	MCA - Department Coordinator	Mr. Bharat Bhushan

4.2 TECHVISION 2016 TEAM WHO SUPPORTED SPSS TEAM DURING TECHVISION

Convener: Dr.Rathishchandra R Gatti

 1.Inauguration & Guests-Mr. Rakshith Shetty(ME),Ms.Ashutha K(ECE),Dr.Molly Chaudhary,Prof. Srilatha

2.Finance-Dr. Rathishchandra R Gatti(ME)

3.Judges- Mr. Ashwath Rao(ECE),Mr.Steven Fernandes(ECE),Mr.Bharat Bhushan(MCA)

4.Publicity-Mr. Harisha (CSE),Mr. Vasanth Kedige,Mr. Sanjay

5.Volunteers-Ms.Ashutha K.(CSE)

6.Awards & Certificates-Mr.Prashanth Duddela(CSE),Mrs.Priya(CSE),Mrs.Sadhana(CSE)

ECE Co-ordinators - Mr. Sharathchandra N,Mr. Ashwin Kumar

Civil Co-ordinators -Ms. Bhavya,Mr. Umesh

MECH Co-ordinators-Mr. Vaishak,Mr. Suhas

IS Co-ordinators-Mr. Prakyath Rai,Mr. Rithesh

CS Co-ordinators-Mr. Sunil,Mr. Madesh,Mr. Shamanth

1st Year Co-ordinators-Dr. Savitha(CHEM),Mrs. Jyothi(PHY),Mrs. Sharada (CHEM)

Advisory Comittee

1.Dr. Manjappa, Director -Research & Consultancy

2.Dr.Richard Pinto,Director - CENT

3.Prof. Umashankar,Dean-Academics

4.Prof.Balakrishna,Vice Principal

5.Dr.U.M Bhushi,Principal

STUDENT VOLUNTEERS

Ashok, Sujith,Vidhyashree,Sagir Haque,Patel Haniben,Surakshitha,Sheetal

Rhea, Sharifa,Shwetha,Pavan Kumar,Anusha A,Anusha K,Hemalatha,Nagesh,Chaithra Shetty,Rithik,

Mayur,Vaishnav,Krithi Shetty,Mithun KV,Thilak,Sakeer,Atmika,Bhagyashree,Vishnuprasad,Prajna,

Vibha,Vishwajith,Vivek, Shramith,Suhas,Ajay Patel,Suhas B S,Vidhya Bhushan

5. SPSS PROJECTS (SANCTIONED AND EXECUTED)

Branch	SANCTIONED				EXECUTED		
	2nd Year	3rd Year	PG		2nd Year	3rd year	PG
ME	30	30	2		18	25	0
CV	20	30	10		8	11	7
CS + MCA	30	30	10		24	21	5
IS	20	30	3		18	02	0
EC	20	30	3		23	25	0
Total	**120**	**150**	**30**		**91**	**84**	**12**
Total (All 2nd/3rd/PG)	**300**				**187**		
1st Year	**65**				**44**		
ID	**05**				**02**		
Grand total	**370**				**233**		

6. SPSS 2015-16 FINANCIAL DETAILS

6.1 SANCTIONED AMOUNT FOR SPSS 2015-16

Approved budget was 17, 55,000.00.

6.1.1 BUDGET SANCTIONED BE/PG YEAR-WISE

Branch	Amount Sanctioned
Year 1 BE	3, 60,000
Year 2BE	5,40,000
Year 3 BE	6,75,000
ID	1,00,000
MTECH	70,000
MCA	10,000
TOTAL	**17,55,000**

6.1.2 BUDGET SANCTIONED BRANCH

Branch	Amount Sanctioned
1st Year	360000
ME	290000
CSE	280000
ECE	235000
CV	245000
IS	235000
MCA	10000
ID	100000
Total	**1755000**

6.2 EXPENSES FOR SPSS 2015-16

6.2.1 EXPENSE SUMMARY

1st Installment	Rs. 1,59,539
2nd Installment-1st list	Rs. 2,53,774
2ndInstallment -2nd list	Rs. 60,923
3rd installment	Rs. 1,88,036
Total	Rs. 6,59,272

6.2.2 EXPENSES IN DETAIL

1st Installment Projects

		Projects	Amount
1st Year	1st year all	24	18523
	Total	**24**	**18523**
	Branch	**Projects**	**Amount**
2nd Year	ME	6	10537
	CV		
	CS	4	5546
	IS		
	EC	29	42698
	Total	**39**	**58781**
	Branch	**Projects**	**Amount**
3rd Year	ME	7	13185
	CV	1	1450
	CS		
	IS		
	EC	27	44482
	Total	**35**	**59117**
	Branch	**Projects**	**Amount**
PG	1MTEC01	1	10000
ID	ID-05	1	6618
2014 ME3	2014 ME3	1	5500
20141Y01	20141Y01	1	1000
	Total	**4**	**23118**
	Grand Total	**102**	**159539**

2nd Installment Projects

		Projects	Amount
1st Year		**Projects**	**Amount**

	1st year all	24	28107
	Total	**24**	**28107**
2nd Year	**Branch**	**Projects**	**Amount**
	ME	9	24361
	CV	1	2000
	CS	5	12600
	IS	1	3173
	EC	19	32224
	Total	**35**	**74358**
	Branch	**Projects**	**Amount**
3rd Year	ME	16	48768
	CV	4	18200
	CS	2	7701
	IS	1	1761
	EC	18	33970
	Total	**40**	**110400**
PG	1MTCV	4	13078
ID	ID	4	27831
	Total	**8**	**40909**
	Grand Total	**107**	**253774**

2nd Installment 2nd Projects List

		Projects	**Amount**
1st Year	1st year all	3	4000
	Total	**3**	**4000**
2nd Year	**Branch**	**Projects**	**Amount**
	ME	3	9044
	CV	1	4000
	CS	3	3679
	IS		
	EC	2	5653
	Total	**9**	**22376**
	Branch	**Projects**	**Amount**
3rd Year	ME		
	CV	1	3660
	CS		
	IS		
	EC	2	3537
	Total	**3**	**7197**
PG	1MTCV01	2	11350
ID	ID-09	1	16000

Total		**3**	**27350**
Grand Total		**18**	**60923**

3rd Installment project List

		Projects	Amount
1st Year	**1st year all**	12	16608
	Total	**12**	**16608**
2nd Year	**Branch**	**Projects**	**Amount**
	ME	7	15110
	CV	7	22709
	CS	16	16995
	IS		
	EC	3	5869
	Total	**33**	**60683**
	Branch	**Projects**	**Amount**
3rd Year	ME	5	14856
	CV	8	28445
	CS	19	19000
	IS		
	EC	2	4781
	Total	**34**	**67082**
PG	MCA+MTCV	11	32621
ID	ID05+ID06	2	11042
	Total	**13**	**43663**
	Grand Total	**92**	**188036**

5. LIST OF COMPETED PROJECTS

Sl.No	Project	No of students	Project Title
1	1BE003	6	Production of electricity from salt water
2	1BE005	6	Portable Gray water Treatment Model
3	1BE008	7	Waste plastic into printing ink and fuel
4	1BE009	5	Zinc oxide nanoparticles in water treatment
5	1BE010	5	Simple Hologram Projector
6	1BE010	5	Simple hologram projection
7	1BE011	7	Smart Charger
8	1BE013	6	Automated Laser gate
9	1BE014	7	Bus Locator
10	1BE017	3	Luggage security alarm
11	1BE019	4	Arduino based led street light with auto intensity control
12	1BE020	7	Electronic Letter Box
13	1BE021	5	Autonomous coin charger/ Autonomous railway gate controller and obstacle detection with signaling
14	1BE022		Design of a circuit to change a battery using piezoelectric materials due to stress applied by the feet on the ground
15	1BE025	6	Finding Living Human beings during natural calamity using Infrared Robot
16	1BE026	5	Noise Breakers
17	1BE027	6	Propeller Clock
18	1BE028	6	Smart Fishing for the welfare of Fishermen
19	1BE029	6	Social Awareness
20	1BE030	6	Thermoelectric Charger
21	1BE031	6	Ultrasonic Camera System
22	1BE032	7	Vehicle Control System with Accident Prevention by using sensors in curve
23	1BE033	6	Water Level Sensor
24	1BE041	8	RFID BASED AUTOMATIC TOLLGATE COLLECTION
25	1BE043	7	Portable wind mill
26	1BE046	6	Device Protector
27	1BE046	6	Device Protector
28	1BE047	7	E-Dustbin
29	1BE049	8	Mobile Detector
30	1BE050	6	Solving drainage problem at Shaktinagar
31	1BE051	5	Tool to extract Tender Coconut
32	1BE053	6	Detection of mobile signals in class room, offices and examination halls
33	1BE054	4	Drinking water supply in hotels
34	1BE055		Fabrication of Composite bricks using waste plastic materials

35	1BE059	6	OWREER System (only war road entry exit restriction
36	1BE061	7	SMOKE ABSORBING CHIMNEY
37	1BE063	7	Using water to utility purpose without aid of pump
38	1BE065	8	Electricity bill and load operation controller
39	1BE066	5	Modified wireless speakers
40	1BE067		Know More LPG-Kit
41	1BE068	6	Mosquito Repellent Solar Lamp
42	1BE069	6	Multi-Purpose Stick
43	1BE073	6	Work Power
44	1BE076	5	Ultra breaker
45	1MCA02	4	Analysis of bresenhams drawing algorithms
46	1MCA03	4	Analysis minimum spanning tree Algorithms
47	1MCA04	4	Analysis of shortest path algorithms for Network Applications
48	1MCA05	4	Analysis of sorting algorithms
49	1MCA06	4	Comparison of string matching Algorithms
50	1MTCV01	2	Analysis and design of elevated water tanks on sloping ground using e-tabs
51	1MTCV02	2	Analysis and design of pile foundation of Bangalore metro rail system
52	1MTCV06	2	Experimental study on properties of concrete subjected to elevated temperature
53	1MTCV09	2	Proposal of an underpass for pedestrians near Sahyadri campus
54	1MTCV13	2	Structural comparison of a composite and steel pratt truss bridge
55	1MTCV14	2	Behavior of concrete with coconut shell as coarse aggregates and ggbs as partial replacement of cement
56	1MTCV15	2	Structural comparison of a composite and steel
57	2BECS01	6	Smart phone system using android mobile application
58	2BECS02	6	ATM Router Android App
59	2BECS03	6	Automatic night light with morning alarm
60	2BECS04	6	City Hunter
61	2BECS05	6	Digital Clock using 7 segment display
62	2BECS06		Ec/id labmate
63	2BECS07	6	E-hospital
64	2BECS08		Fac app (faculty availability check)
65	2BECS09	6	Face Recognition using LDA and PCA algorithms
66	2BECS10	6	Implementation of an Algorithm for large file transfer in a host machine
67	2BECS15	4	Layer by layer encryption and decryption
68	2BECS17	4	Multiple Encryption and single decryption process to secure the data/Online recruitment system
69	2BECS18	6	Nomadic Pay
70	2BECS19	6	Online blood bank management system
71	2BECS21	6	Pin to dairy
72	2BECS22	6	Pincode decoder
73	2BECS24	5	Sahyadri Exam Fees Payment System (SEFPS)
74	2BECS25	6	Smart City using IOTS-1

75	2BECS26	4	Smart City using IOTS-2
76	2BECS27	6	Smart dustbin
77	2BECS29	6	Smart Plantation
78	2BECS30	6	SMART Reminder
79	2BECS31	6	Under water surveillance using android application
80	2BECS35	4	Text to Braille converter
81	2BECV01	5	Replacement of e-waste as a coats aggregate
82	2BECV03	4	Comparative study on strength of concrete with laterite as a replacement for sand coarse aggregate
83	2BECV04	5	Comparative study of M-sand (Quarry durt)
84	2BECV07	6	Feasibility study of physic-chemical characteristcis of sahyadri canteen waste water by up flow reactor using natural absorbents/ Compressive strength concrete using laurite as a fine aggregate
85	2BECV09	5	Investigation on laterites stones of different quarries in Mangalore region based on its strength characteristics
86	2BECV11	4	Performance of fiber reinforced concrete in pavements as Crack Arrestors
87	2BECV13	6	Replacing cement with egg shell powder
88	2BECV20	4	Comparative study between consistencies of cement mortar depending upon time period
89	2BEEC01	4	Automatic irrigation using soil moisture sensor
90	2BEEC016	4	Automatic ON and OFF of pump
91	2BEEC017	4	Automatic door lock system
92	2BEEC022	4	Photoelectric sensor based automatic street light
93	2BEEC027	4	Super sensitive intruder alarm as doorbell with spy camera
94	2BEEC028	4	Using TV remote as cordless mouse
95	2BEEC029	4	Vehicle overweight detection in tollgate using hall effect sensors
96	2BEEC03	4	Automatic engine looking system for drink and drives
97	2BEEC030	4	Wireless charger
98	2BEEC033	4	Energy efficient solar based digital weighing machine
99	2BEEC05	5	Automatic railway gate control using microcontroller
100	2BEEC06	5	Banana ripening estimation using matlab programme
101	2BEEC08	4	Automatic wheelchair using Bluetooth
102	2BEEC09	4	Digital security code lock using 8051 microprocessor
103	2BEEC11	4	Electronic agriculture using GSM
104	2BEEC13	4	Gas leakage detector
105	2BEEC15	4	GSM based automatic street light monitoring and control
106	2BEEC18	4	Implementation of dual axis solar tracker
107	2BEEC22	4	Power saver smart switch (pass)
108	2BEEC23	5	Prevention of accident and stress detection eye blink sensor
109	2BEEC26	4	Solar Power based automatic irrigation system
110	2BEEC31	4	Wireless noticeboard
111	2BEEC32	4	Railway track trace
112	2BEIS01	6	Pac man game

113	2BEIS02	6	Mangalore darshan.com
114	2BEIS03	6	Tic Tac Toe game
115	2BEIS04	6	A secure client-server data communication by data distribution
116	2BEIS06	6	Contact Manager/ App for provoiding jobs for unemplyoed people-digital India
117	2BEIS07	6	CG working of wind mill
118	2BEIS08	6	Automation of classroom light
119	2BEIS09	5	Educational Weber along with an mobile application
120	2BEIS10	6	FAKE GPS
121	2BEIS11	6	Password protected diary
122	2BEIS12	3	Mini snake game
123	2BEIS14	5	Sensor based walking stick
124	2BEIS15	6	Elevator Interface
125	2BEIS16	6	Structured and Unstructured data
126	2BEIS16	5	Student result analysis and management
127	2BEIS17	6	Temperature controlled relay to operate dc fan using arduino kit
128	2BEIS18	6	The placements guide
129	2BEIS20	6	Voice to text convertor
130	2BEME01	5	Mechanical wall painting machine
131	2BEME02	6	Auto Brake
132	2BEME03	4	Bicycle with propeller shaft
133	2BEME04	5	Cocunut de-husking machine
134	2BEME05		Design and fabrication of arecanut collecting
135	2BEME08	6	Fabrication of Hydraulic Jack Operated by Switching Mechanism
136	2BEME09	6	Folding Bicycle
137	2BEME10	7	Foot operated flush valve
138	2BEME12	7	Solar parabolic collector system
139	2BEME17	6	Hydrogen boast engine/ Mechanized cart for multi action
140	2BEME18	7	Mobile puncture vehicle
141	2BEME19	6	Meet purpose actual true climber
142	2BEME21	6	Reconditioning of Torsion graph plotting set up
143	2BEME24	6	Seat belt ignition interlocking system
144	2BEME25	7	Semi controlled robotic arm
145	2BEME26	6	Smart home system
146	2BEME27	6	Smart hydrogen boost engine
147	2BEME28	6	Solar boiler using fresnel lens for multipurpose
148	3BECS01	4	Clouds android application along with web application
149	3BECS04	6	Daily Specials in Sahyadri Canteen
150	3BECS05	5	Dejavu-A Remainder app
151	3BECS06	4	Disability Welfare Management System
152	3BECS07	4	-DYNAMIC DOCKET DESIGNER-
153	3BECS08	4	En route: KSRTC bus tracking system

154	3BECS11	5	Friend finder
155	3BECS12	5	Globalization of hospital network
156	3BECS13	4	Home Automation using Bluetooth: an initiative for smart house
157	3BECS14	5	Hotel Management using database
158	3BECS15	4	Implementation of Image Steganography Using 2-Level DWT Technique
159	3BECS16	5	Lets connect – social networking on android
160	3BECS17	4	Online Recruitment System
161	3BECS18	6	Online registrations for workshops
162	3BECS19	6	Placement management
163	3BECS22	4	RTO MANAGEMENT SOFTWARE
164	3BECS23	7	Smart Library
165	3BECS25	4	Target tracking using wireless sensor network
166	3BECS26	5	VTU college-pedia
167	3BECS27	4	Web based bot to crawl internet and dynamically update bot with relevant keywords
168	3BECS28	5	Web Based Support For Farmers
169	3BECV02	5	Eco-housing
170	3BECV06	5	Link road proposal details map of Mangalore city by conducting various geotechnical tests and collection of field data
171	3BECV07	5	Marshalling test mix design for highway pavement
172	3BECV08	4	Preparation of soil detail map of Mangalore city
173	3BECV10	6	Rain water harvesting
174	3BECV12	5	Reduction of concrete congestion in Pumpwell (ROTCIP)
175	3BECV13	5	Steel structure bridge
176	3BECV14	5	Surveying using UAV and Mapping
177	3BECV15	5	Development of floating concrete structure
178	3BECV16	5	Town planning
179	3BECV35	4	Experimental Investigation of utilization of paper waste
180	3BEEC01	4	A P C aided foetal heart rote detection
181	3BEEC02	4	Automatic accident detector and resave using traffic light system
182	3BEEC04	4	Automatic board eraser
183	3BEEC06	4	Automatic Railway gate controller
184	3BEEC08	4	Bike antitheft securities
185	3BEEC09	4	Density based Traffic control system
186	3BEEC10	4	Analysis of address using Verilog
187	3BEEC11	4	Ultrasonic sensor for collision avoidance
188	3BEEC12	4	Drowsy driver sleeping device and driver alert system
189	3BEEC15	4	Eye tracking based driver monitoring warning system / Drowsy driver fatigues warning system using MATLAB IP
190	3BEEC16	5	Face detecting door lock using Image Processing
191	3BEEC17	4	Solar powered grass cutter
192	3BEEC19	5	Manufacturing printed circuit boards & simulation of circuit
193	3BEEC20	4	Multi controlled obstacle Avoidance wheel chair

194	3BEEC22	4	Patient heart beat monitoring and emergency heart attack informer
195	3BEEC23	4	Quad pod / Pi glass
196	3BEEC26	4	RF based dual mode Robot
197	3BEEC27	4	Smart Appliances
198	3BEEC28	4	Smart LPG leakage detection system
199	3BEEC29	4	Smart solar based Dona Towa
200	3BEEC30	4	AUTOMATED SOLAR GRASS CUTTER AND COLLECTER
201	3BEEC31	5	Visible light communication / Surveilliance car controlled via dtmf
202	3BEEC31	4	Surveillance car controlled via DTMF module
203	3BEEC33	5	Electronics Notice board
204	3BEEC34	4	Wireless switch
205	3BEIS05	6	Animated tea pot
206	3BEIS06	6	Book my dAudianr (Auditorium Seminar hall)
207	3BEME01	5	Affordable solar powered agricultural dryer for rural applications
208	3BEME02	4	Analysis of Temperature changes on the twist drill under different drilling condition during dry drilling of austenitic steel
209	3BEME03	5	Areca nut tree climbing machine
210	3BEME04	5	Automatic board cleaning
211	3BEME06	4	Design and fabrication of ball burnishing tool
212	3BEME07	5	Design and fabrication of mechanic blackboard duster
213	3BEME08	5	Economics and ergonomic sweeping machine
214	3BEME09	5	Ergonomic Fan
215	3BEME10	6	Footstep Power Generation
216	3BEME12	4	Internal combustion engine exhaust gas energy recovery system
217	3BEME12	4	Internal combustion engine exhaust gas energy recovery system
218	3BEME13	4	Micro wind energy generator for residential buildings
219	3BEME14	4	Tin Can Crusher/ Multi agri cutter solar based
220	3BEME16		Pedal operating single acting reciprocating pump
221	3BEME17	4	Pedal powered centrifugal pump
222	3BEME19	6	Multipurpose areca nut tree climber/ Pneumatic Engine Part-2
223	3BEME20	4	Portable rapid assembles and disassembles system for automobile tires
224	3BEME21	4	Power generation from dissipating heat energy by using thermo electric generator (TEG)
225	3BEME22	4	Priming tank for portable water
226	3BEME23	5	Regenerative suspension system
227	3BEME25	5	Structural analysis of turbine blade using ansys
228	3BEME26	5	Waste heat recovery through AC system
229	3BEME27	5	Implementation of 5-S in Engineering Institute
230	3BEME28	5	Power generation from dissipating heat energy by using Thermoelectric generator
231	3BEME29	6	Vertical axis windmill for the generation of electricity by vehicular movement
232	ID-03	11	Design & Fabrication of gas sensing chamber
233	ID05	5	Power S-phaser

6. PRIZE WINNING SPSS PROJECTS

PROJECTS THAT WON IN TECHVISION 2016

Majority of these projects (see list below) that are not Final year Projects are SPSS funded projects.

1st YEAR ENGINEERING			
PRIZE	**TITLE**	**GUIDE**	**STUDENTS**
1	SMOKE ABSORBING CHIMNEY	Mr. Shivakumar K M	Ashwitha Jathan,Chaithra,Darshan S,Sudesh N Acharya,Rahul,Akshith E Rai,Alister Sujith Lasrado
2	Face detection , video tracker and real time face tracker. (detector).	Mr. Steven Lawrence Fernandes	NILESH.KINI SRUSHTI VAIBHAV G.B YASHWIN SANATH SUPRAVI.RAI
3	Water Purification using zinc oxide nanoparticles	Dr. Savitha M. B.	Darshan N P Rakshith B Dixit B Tandel Deekshith D Amit Gupta
4	Smart Charger	Dr. Savitha M. B.	Allan Loy D souza Jonathan Adriel Rodrigues Jonsil Merwin D'souza Charan Raj Anoop Raj Darshan S Bhut Janmith J Shetty
	Ultra breaker	Mr. Vikas G	Super tech
5	VEHICLE CONTROL SYSTEM WITH ACCIDENT PREVENTION BY USING SENSORS AT CURVE ROADS	Ms. Ashutha K	Aravinda B Ashik K Chirag D Bangera Chaitralakshmi C Deeksha Deeksha P Kavya R
ELECTRONICS & COMMUNICATION ENGINEERING			
Final Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	VLSI Implementation of High speed digital signal processor "VMPV_008K	Praveen Kumar Konda.	Vardhana

	using vedic mathematics and proposal of interfacing software are using		
2	Implementation of Real time dress – up system based on image blending	Gurusiddaya Hiremath	Vidhyashree, Vaishnav, Sujith Subbaiah,
3	Design of BPSK/QPSK Modulator using Verilog HDL and Matlab	Mrs. Deepthi dayanand	Akshaya Muralidhar,Ashwini G Pai, Chaithra Shetty, Edel Andrea peres,
Consolation			
4.	Newton Raphson Algorithm for floating point decision using an FMA	Mrs. Deepthidayanand	Thilak.P, Nithin Kumar N, Suraj K S Naik, Pavan Kumar
5	Automated Bottle Filling system based on PLC SCADA	Mr. Sharathchandra	Shalmali J shetty, Rea Eunice Varsha Muthappa V, Zuhaira Marzuqa Bashir.
III Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	Manufacturing printed circuit boards & simulation of circuit	Ms. Bianca Baby	Rohit Choudary & Team
2	AUTOMATED SOLAR GRASS CUTTER AND COLLECTER	Mrs. Deepthi dayanand	Dheeraj B & Team
3	Wireless Electronic notice board	Mr. Gurusiddaya Hiremath	Jagath Biddappa & Team
Consolation			
4	AUTOMATIC ACCIDENT DETECTION AND AMBULANCE RESCUE WITH INTELLIGENT TRAFFIC LIGHT SYSTEM-	Mr. Sharathchandra	Akshaya Rathnavas & Team
II Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	E generation	Ms. Pavanalaxmi	Archana George & Team
2	SMART AGRICULTURE FIELD AUTOMATION	Dr. Jose Alex Mathew	Keerthan & Team
3	Power Saver Smart Switch	Mr. Praveen Kumar Konda	Ajay & Team
Consolation			
4	Automatic railway gate control	Ms. Megha N	Anuraj Chouta & Team
COMPUTER SCIENCE ENGINEERING			
Final Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	EDGE (Education In Graphical Environment)	Prof. Sudheer Shetty	1. Sachin Ganesh 2. Roshin Baby Varghese 3. Raghavendra 4. Rajisha K Raja

2	Enhancing Classification Performance Using Data Preprocessing and Machine Learning Methods on Networks Traffic Data	Mr. Shobhan Kumar	1. Punyashree K 2. Preetham 3. Harshitha 4. Abhiram C
3	Computer Science And Engineering Opinion Mining of Various Movie And Product Reviews Using Naïve Bayes Classifier	Mr. Sunil B N	1. Shourie 2. Shreeraksha 3. SaathvikaHegde 4. Sharanya K
Consolation			
4	Developing a Novel Technique for Identification of Victims of Sexual Exploitation of women and children using Intel NUC	Mr. Shailesh Shetty	1. M A FathimathMashitha 2. AminaThahzeera 3. Mervyn Richard Dsouza 4. Manoj H N
III Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	Disability Welfare Management System	Mr. Madesha M	1. Shilpa Nayak 2. Sharanya K 3. Shibani Prabhakar 4. Rakshith N
2	Friend Finder	Mr. Shailesh Shetty	1. Varun Raj J Shetty 2. Vijeth Rai P 3. Ravindra P 4. Punith K R 5. Kishor
3	Home Automation using Bluetooth-An Initiative for Smart Phone	Mr. Shamanth Rai	1. Akshith Ranjan Pavar 2. Meghana S 3. Swaraj Jyoti Hazarika 4. Ravishankar A
Consolation			
4	Web-based Bot to Crawl Internet and Dynamically update Bot with Relevent Keywords	Prof. Prabhakara B K	1. Prajwal S Chandra 2. Vishal Joy Pinto 3. Shreyas B 4. Sabith A A
II Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	Smart City using IOT	Mr. Harisha	1. Pavithree B Shetty 2. Sanath R Kashyap 3. Shree Krishna 4. Supraja 5. Sneha V Kamath 6. Shishir 7. Sherlin Niel Pinto 8. Suraj Shettigar 9. Prathvi Shree
2	Smart Plantation	Mrs. Sadhana	1. Shwetha Kumari 2. Vihitha M 3. Sumana S 4. Vismitha Muthappa K 5. Shilpa R K 6. Vidya Shankari B

3	Delivery Specialists	Mr. Girish S	1. Chandraprakash Acharya 2. Ajay Amanna 3. Bharath Raj Kottari 4. Balachandra 5. Jeevan T B 6. Harshith C Shetty
Consolation			
4	Life Saver – Online Blood Donation	Mr. Duddela Sai Prashanth	1. Akshatha A 2. Anvitha P R 3. Athullya Chandrashekar 4. Bhavishya N Kotian 5. Chaithra 6. Gagana T Naik 7. Jovita Sharal

CIVIL ENGINEERING

Final Year

POSITION	TITLE	GUIDE	STUDENTS
1	An Experimental investigation on strength parameters of fly ash based Geopolymer concrete with GGBS	Ms. SMITHA	1.Anveeth Mallya 2.Rohith Kumar B 3.Darshan S 4.Barath Raj
2	Stabilization of block cotton soil by using terrazime and fly ash	Mr. SUNIL KUMAR K	1.Malashree 2.Roshan 3.Savya Banu 4.Abraham
3	Production of biogas by using kitchen waste	MS. RASHMISHREE K N	1.Blesson 2.Asha 3.Divya 4.Ashvik

III Year

POSITION	TITLE	GUIDE	STUDENTS
1	Preparation of soil details map of Mangalore city by conducting various geotechnical tests and collection of field data.	Mr. JAYARAM	1.Cavin Vijay Mascaraneous 2.Sankya 3.Swapna 4.Radhika M R
2	Surveying using UAV and Mapping	MS. KAVYASHREE	1.Midhun Jyothis 2.Likiha M G 3. Rangeel R 4.Neejath Rasheed

II Year

POSITION	TITLE	GUIDE	STUDENTS
1	Earthquake resistant design of structures		
2	Comparative study on strength of concrete with laterite as replacement for fine aggregate	Mr.SUDEEP SHETTY	1.Rajesh Kumar Rao N 2.Sahana 3.Naveen Shetty 4.Suhas Hegde

M.Tech

POSITION	TITLE	GUIDE	STUDENTS
1	Experimental study on properties of concrete subjected to elevated temperature	Mr. DILEEP KUMAR U	1.Errol Dsouza 2.Mithun

2	Proposal of an Underpass for pedestrians near Sahyadri Campus, Adyar.	Mr. LIKITH M L	1.Abhishek Nayak 2. Rakshith K L

MECHANICAL ENGINEERING

Final Year

POSITION	TITLE	GUIDE	STUDENTS
1	Telescopic Sprayer	Mr. Kiran Prakash	1. Ashwith 2. Abdul Ahad Ali 3. Navaneeth Y K 4. Kiran B G
2	Solarized Agro Sprayer	Mr. Vaishak N L	1. Ramya K m 2. Naeemu P A 3. Vaishak k 4. Shine Jees 5. Nikhil Shaju Chaly
3	Debris Collector And Seperator	Mr. Suhas	1. Swasthik Bhandary N 2. Shashank P 3. Karthik J 4. Dikshith K S
Consolation			
4	Waste Management System	Mr. Vinay B U	1. Mohammed Mudassir 2. Mohammed Rahees T 3. Mohammed Sabil 4. Farshad M
5	Rice Washing Machine	Ms.Ramyashree A P	1. Prashanth Kumar 2. Kavya 3. Lingaraja 4. Santhosh Kandre

III Year

POSITION	TITLE	GUIDE	STUDENTS
1	Affordable hybrid Solar-mechanical powered Agriculture Dryer	Dr.Rathishchandra R Gatti	1.safiyulla 2. Varun 3.Sahil 4.Nishant 5.Rahul
2	Can Crusher	Ms. Impha Y D	1.Pradeep Naik 2.Amit 3.Nagraj 4.Shabuddin
3	Portable rapid Assembly system For automobile Tires	Mr. Hanumantharaya	1.Shantaram 2. Adarsh 3.Mallikarjuna
Consolation			
4	Pedal operated Centrifugal Pump	Ms. Impha Y D	1.Chaitanya 2. Fazil 3.Datta 4.Kashyap
5	Arecanut Tree Climbing Machine	Mr. Vinay B U	1.Vinod K H 2. Rakshith P 3.Daneesha K P 4.Sachin C S 5.Prajwal Naik

II Year

POSITION	TITLE	GUIDE	STUDENTS

1	Mechanized cart for multi action	Mr. Shivakumar K M	1. Avinash K M 2. Bharath Kumar g 3.Praveen Kumar 4.Prahalad 5.Sheik Shavali 6.Ratan S
2	Auto Brake	Mr. Suhas	1. Sayed Mohammed 2. Sayed Nameez 3. Sreerang K 4. sharath S 5.Shawn Anees 6. Rajashekar Datta 7.Sairaj S 8.Safwan J H
3	Smart Hydrogen boost Engine	Mr. Prasad Chandran	1.Harsha Ram Bhat 2.Ganesh P 3.Jayaprakash 4.Haven 5.Abilash 6.Bipin
Consolation			
4	Fabrication of Hydraulic jack operated by Switching Mechanism	Mr. Mahadev U M	1.Deelan Felix 2. Deep K Kapdi 3.Babil P V 4.Gagandeep M 5.Aniketh Naik 6.Akshay V Kumar
5	Smart Home System	Mr. Ramakrishna Devananda P	1. Aneesh Rajan 2. Ahamed Shiyad 3.Ahamed Yasir 4.Abubaker siddique 5.Mohammed Shamsan 6.Abdul Kader Munas

INFORMATION SCIENCE & ENGINEERING
Final Year

POSITION	TITLE	GUIDE	STUDENTS
1	Data Mining for Improved Customer Relationship Management	Mrs. Ramya B S	Manish Kumar Raksha Rai Sushmitha Shetty Varsha
2	Implementation of Incremental Mining on Hadoop	Ms. Jayapadmini Kanchan	M P Basith Ameer Ali Nishitha Shetty Ramya R Rashmi Rai v

III Year

POSITION	TITLE	GUIDE	STUDENTS
1	Child / Employee Monitor	Dr. A P Manu	Rafih M Pratheeka Prakash chaithanya
2	Medicinal Plant Detector	Ms. Madhura N. Hegde	Ankit Pratap Singh Greeshma J Divya Shree Chitrambha Hithashree Pooja T
3	Break Management System	Mrs. Ramya B S	Anvith P M Charanraj

			Karthik H Lenson Roy Saldanha Naval Hegde Rafih M
3	Load Balancing in Cloud Data Center	Ms. Sweekriti M Shetty	Neha N Shettigar Aishwarya S Anusha S Chaitra Afroz Gouse Khan

II Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	Temperature Controller using DC Fan	Mr. Janardhana D R	Harshitha Medini Maithriyee Jeevitha Shree Lavanya Ashitha
2	The Placement Guide	Ms. Jayapadmini Kanchan	Deshik Bharadwaj Jnanesh Shetty Gautami Kishore Mahale Manjushree A.N Dechamma Disha S Rai
3	Timetable Management	Mrs. Suchetha. G	Rakshith Prarthana Srishti Vikshitha Mamtaz Pooja

MCA			
1st year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	Smart File sharing using JAVA Socket	Mrs. Prathibha Suvarna	Bhavtih Raj Deepashree Vishmitha Shetty

Final Year			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	Identiofication of Lung Cancer Suing SVM	Mr. Bharath Bhushan	Ms Shwetha Ms Vidyalakshmi

INTERDECIPLINARY			
POSITION	**TITLE**	**GUIDE**	**STUDENTS**
1	PCB Milling machine	Mr. Prasanna Kumar C N	Rohith Choudhary & Team

WINNERS IN SRISHTI 2016, A STATE LEVEL PROJECT EXHIBITION CONDUCTED BY ABVP.

1) Second place in Aviskhar(non final Year projects) in agricultural section

Project title: Smart portable powder sprayer for agriculture purpose
Name: Harsha Rama bhat(2nd Mech),Swarna sagarika (2nd EC)
Guide : Prof. Prasanna Kumar C, Dept. Of ECE.

2) Second place in Aviskhar(non final Year projects) in IoT section
Project title: Automated City Using IoTs
Name: Pavithree B Shetty,Sneha V Kamath,Supraja,Sherlin Niel Pinto,Shree Krishna,Sanath R

Kashyap.(All Students From 2nd Year CSE)
Guide : Prof. Harisha A, Dept. Of CSE.

3) Second place in Technical Paper Presentation in CS section
Project Title: Enhancement to Improve the Experience of Hand Button Interaction in a Virtual Flight Simulator using Augmented Reality.

Name: Dhanush P Shetty, Ashmitha J Rodrigues,Bishwas Mishra (4th year CS)

4) First prize in Technical paper presentation (civil dept)

Project Title: To develop a low cost water filter to remove arsenic impurities in rural north Karnataka districts.
Name- Jeethan Grinal Rodrigues (3rd year Civil).

Guide: Dr. Gautham Jeppu

Students who attended Srishti 2016 – logistics organized by SPSS Team

The following 63 students attended the Srishti 2016 event organized by ABVP. They were accompanied by the following Staff: Mr.Rakshith Shetty(ME), Ms.Ashutha(ECE) ,Ms.Bianca Baby(ECE) and Ms.Biniya Binoy(CSE).

63 students list

Abhishek K (Paper) CS, Aman agarwal (Paper) CS,Chaithra shetty (Paper) CS,Chandan v ajila (Paper) CS, Dhanush p shetty (Paper) CS,Mohammad ashiq (Paper) CS,Priyanka shetty (Paper) CS,Shefali s kamath (Paper) CS,Shree krishna (Paper) CS,Shruti suresh (Paper) CS,Sneha v kamath (Paper) CS,Yashwin J S (Paper) CS,Koushik M (Paper) CV,Shabareesh (Paper) CV,Sannidhi shetty (Paper) EC,Savina (Paper) EC,Rithik rai (Paper) EC,Priya K (Paper) EC 1ST YR,Bishwas mishra (Project) CS,Chandrika (Project) CS,Pavithree b shetty (Project) CS,Sanath r kashyap (Project) CS,Sherlin niel (Project) CS,Supraja (Project) CS,Agna shetty (Project) CV,Aishwarya shetty (Project) CV,Anjana c k m (Project) CV,Anuradha baliga b (Project) CV,Arthik rai (Project) CV,tejaswini (Project) CV,Ashmika s a (Project) CV,Bhavyashree (Project) CV,Cavin vijay (Project) CV,Chinmay a bharan (Project) CV,Deekshit h m (Project) CV,Jaymin kumar (Project) CV,Jeethan grinal (Project) CV,M r radhika (Project) CV,Mohammed ishrath (Project) CV,priya (Project) CV, Nihal steve (Project) CV,Nirmith ashok (Project) CV,Prathik d shetty (Project) CV,Roshan r dhande (Project) CV,Sankya m k (Project) CV,Saugandh (Project) CV,Shashwatha (Project) CV,Swapna (Project) CV,Vijay kiran m (Project) CV,Yogini (Project) CV,Varun S (Project) CV,Prathista tejpal (Project) EC 1ST YR,Punyashree (Project) EC 1ST YR,Sarika (Project) EC 1ST YR,Shetty arpitha (Project) EC 1ST YR, Swarna sagarika (Project) EC 1ST YR,Anil bhat (Project) MCA,Darshan n (Project) MCA,Deepashri p (Project) MCA,Phanees h p (Project) MCA,Shravan bhagava (Project) MCA,Harsha rama bhat (Project) ME,Maclin pinto (Project) ME.